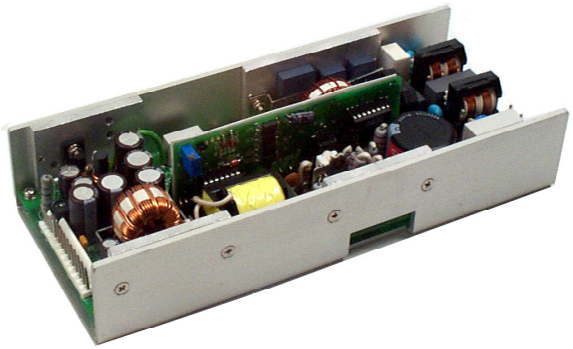
H HiTRON

UNIVERSAL INPUT HARMONIC CORRECTION AC-DC OPEN FRAME SINGLE & DUAL OUTPUT 150 WATTS INTERNAL SWITCHING POWER SUPPLIES HVP150 SERIES



FEATURES:

- **ACCOMMODATE UNIVERSAL AC SOURCES**
- **MEET IEC1000-3-2 HARMONIC CORRECTION**
- **MEET UNIVERSAL SAFETY STANDARDS**
- **EMI MEET CISPR PUB. 22 CLASS B**
- **CE MARKING COMPLIANCE**

SPECIFICATION

INPUT SPECIFICATION

Input Voltage: Typ. 90-264Vac with PFC.
Input Connector: AMP 643495-2 connector or Molex 5273-5A.
Input Frequency: 47-63Hz.
Inrush Current: Typ. 20A @230Vac (active).
Input Current: Typ. 2.3A@ 115Vac, 0.76A @230Vac.
Dielectric Withstand: Meet IEC950.
EMI: Meet CISPR PUB.22 Class B.
Hold-up Time: Typ. 30mS @115Vac & 230Vac.
Power Fail Signal: Installed.
Power Factor Correction: Meet Harmonic Correction per IEC1000-3-2 PF typ. 0.97-0.98.
Earth Leakage: Less than 0.5mA@230Vac.

OUTPUT SPECIFICATION

Output Voltage: See Ratings Chart.
Output Current: See Ratings Chart.
Output Connector: AMP 640445-0 & 640456-2 or Molex 5273-10A & 6410-2A.
Line Regulation: Typ. 0.1%
Load Regulation: Main VO1 typ. ±1.0%. Aux. VO2 typ. ±5.0% (stacked-on).
Noise & Ripple: Typ. 1.0% peak to peak.
OVP: Built-in at main VO1 only.
Remote Sensing: Available at VO1.
Adjustability: Available at VO1.
DC OK: Installed.
Overload Protection (OLP): Fully protected against output overload and short circuit. Consult the factory for OLP setting.

GENERAL SPECIFICATION

Efficiency: Typ. 76%.
Switching Frequency: Fixed freq. at 75K Hz.
Circuit Topology: PWM fixed-frequency forward circuit.
Transient Response: Output voltage returns in less than 3ms following a 25% load change.
Safety Standard: UL1950/EN60950 Class I.
Operating Temperature: 0 to +50°C.
Storage Temperature: -20 to +85°C.
Temperature Coefficient: Typ. 0.04% /°C.
Cooling: Recommended 25 cfm fan cooling for full rating load.
Construction: U-bracket construction format.
Power Density: 2.50Watts / Cubic Inch.

OUTPUT VOLTAGE/CURRENT RATINGS CHART

SINGLE OUTPUT

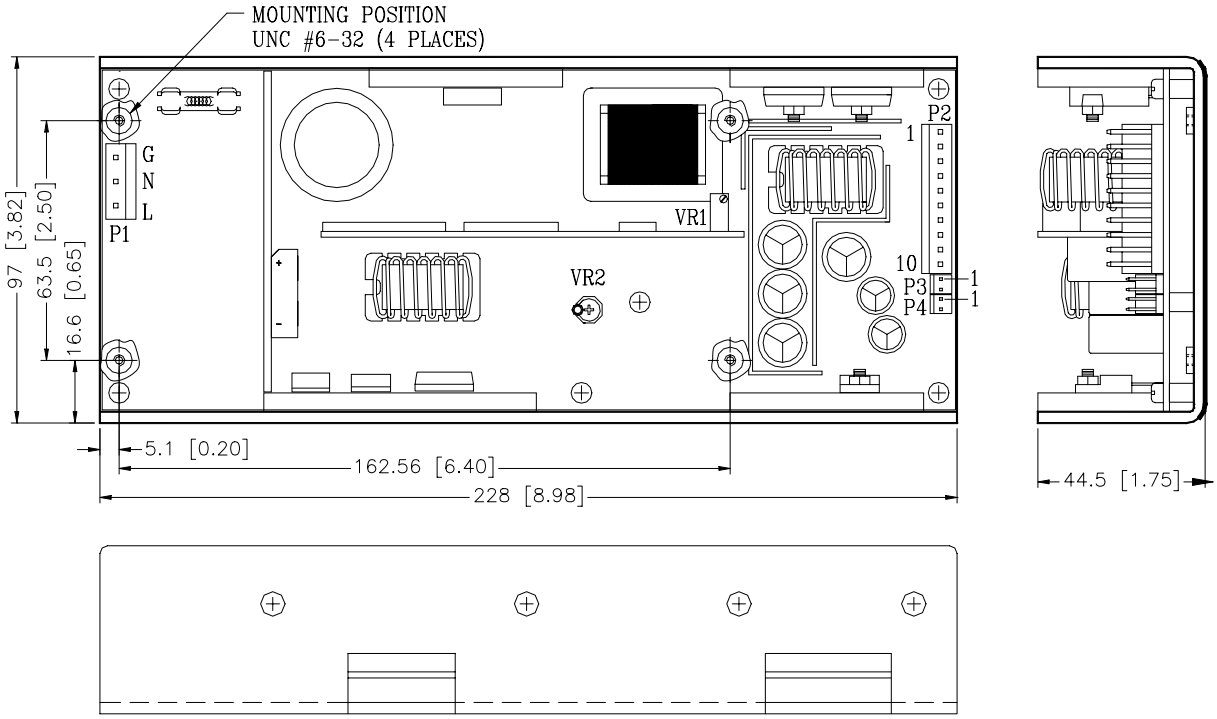
MODEL NO.	MAIN VO1 @★#	
	Typ.	Volt.
HVP150-10	28.0A	**5.0V**
HVP150-11	12.0A	**12.0V**
HVP150-12	9.6A	**15.0V**
HVP150-13	6.0A	**24.0V**
HVP150-14	5.2A	**28.0V**
HVP150-15	4.0A	**36.0V**
HVP150-16	4.5A	**32.0V**
HVP150-17	3.0A	**48.0V**
HVP150-190	28.0A	**3.3V**

DUAL OUTPUT

MODEL NO.	MAIN VO1 @★#		AUX. VO2 †■	
	Typ.	**Volt.**	Typ.	**Volt.**
HVP150-20	25.0A	**+5.0V**	2.0A	**+5.0V**
HVP150-21	24.0A	**+5.0V**	2.0A	**+12.0V**
HVP150-22	24.0A	**+5.0V**	1.6A	**+15.0V**
HVP150-23	24.0A	**+5.0V**	1.0A	**+24.0V**
HVP150-290A	25.0A	**+5.0V**	2.0A	**+3.3V**
HVP150-290B	25.0A	**+3.3V**	2.0A	**+5.0V**
HVP150-291	24.0A	**+3.3V**	2.0A	**+12.0V**
HVP150-292	24.0A	**+3.3V**	1.6A	**+15.0V**
HVP150-23	24.0A	**+3.3V**	1.0A	**+24.0V**

Symbol:" ★" OVP built-in. "@" Adjustable. "†" Stack on main output. "#" Remote sensing. "■" couple filter choke.

MECHANICAL DIMENSIONS: MM [INCHES] WEIGHT: 942.0g (33.2 Oz.)



INPUT & OUTPUT CONNECTORS PIN ASSIGNMENT

	AC INPUT			SINGLE/DUAL OUTPUT			ASSORTED SIGNALS			
ASSIGNMENT	**AC-L**	**AC-N**	**AC-G**	**+VO1**	**+VO2**	**DC-COM**	**DC COM**	**POWER FAIL (Active Low)**	**VO1 SENSE+**	**VO1 SENSE-**
HVP150-1X	P1-1	P1-2	P1-3	P2-7,8,9,10	-	P2-2,3,4,5,6	P3-1	P3-2	P4-1	P4-2
HVP150-2X	P1-1	P1-2	P1-3	P2-7,8,9,10	P2-1	P2-2,3,4,5,6	P3-1	P3-2	P4-1	P4-2

Mating connector: P1: AMP 640426-5 or Molex 5239-5A.
P2: AMP 640427-0 or Molex 5239-10A, 5195-10A.
P3 & P4: AMP 640440-2 or Molex 2695-2A.